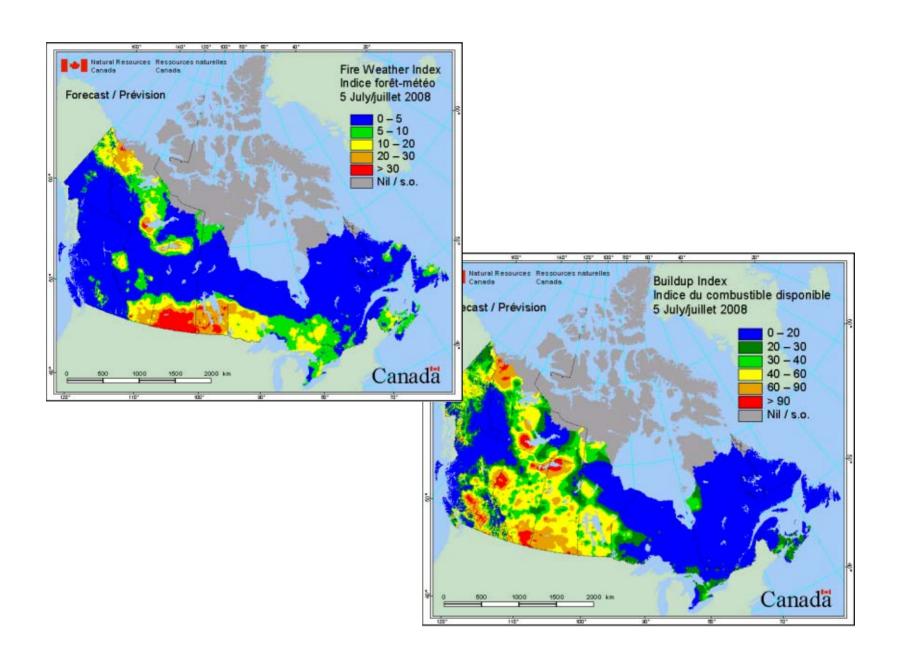
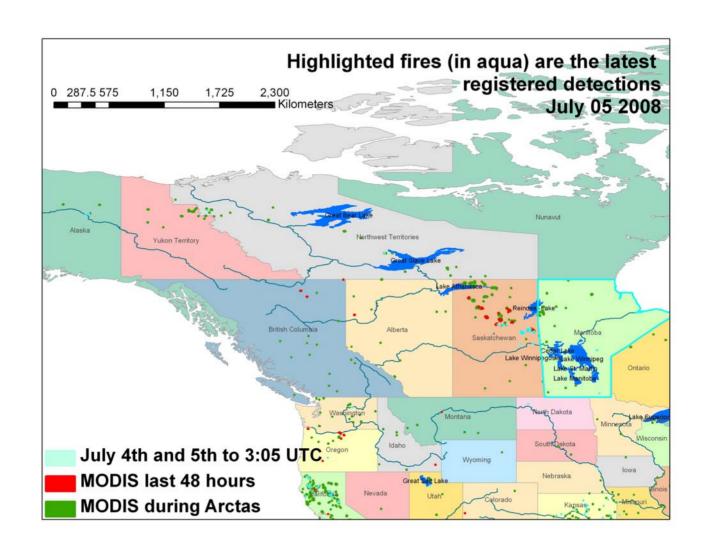
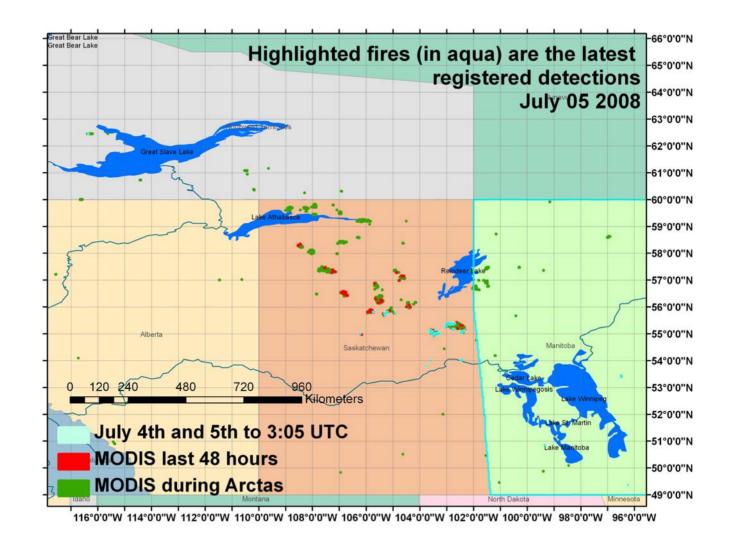
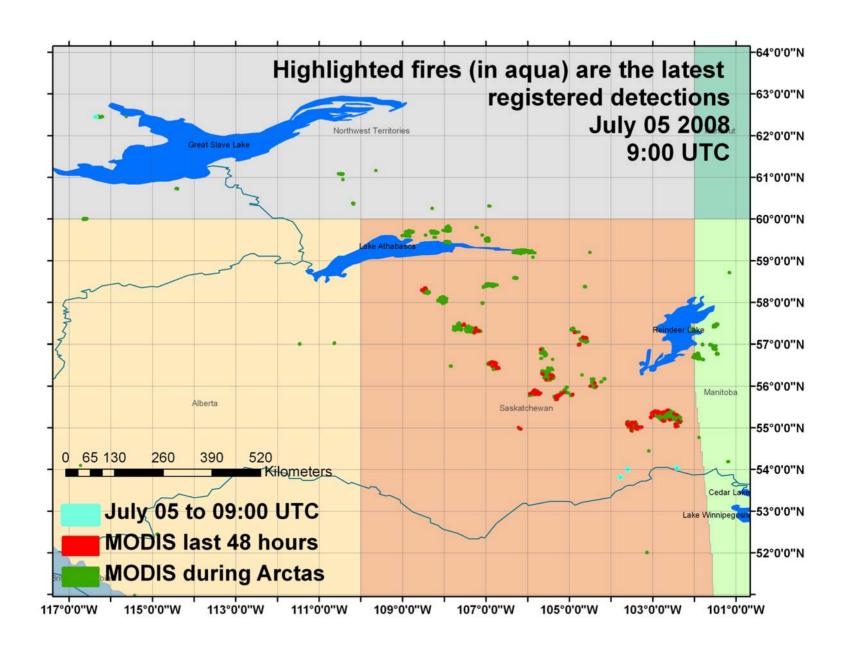
Fire Activity/Potential July 5/08

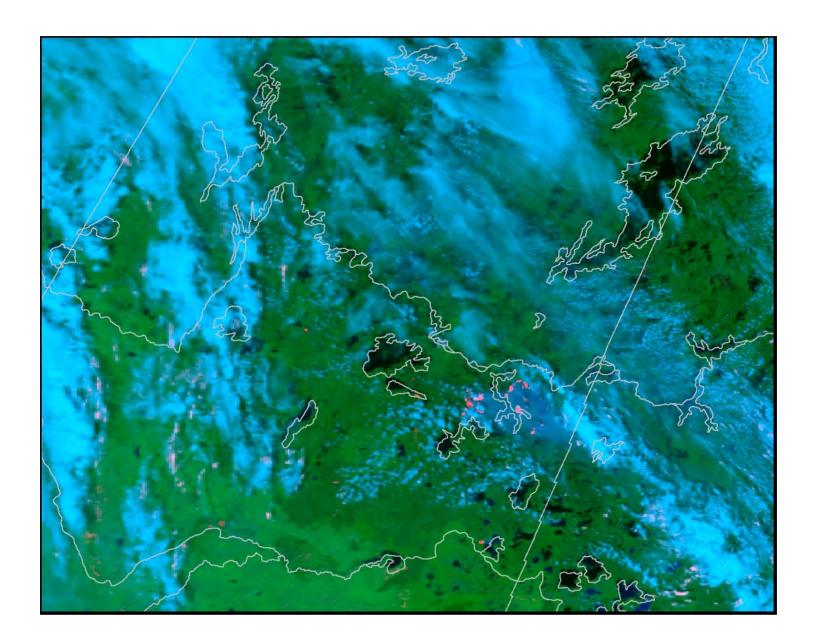
- Heavy but scattered showers across SK last night
- Up to 25mm around PN fire, less to north and west
- SK fire folks assessing lightning and holdover potential early today
- Tomorrow potential for P3 being evaluated this PM

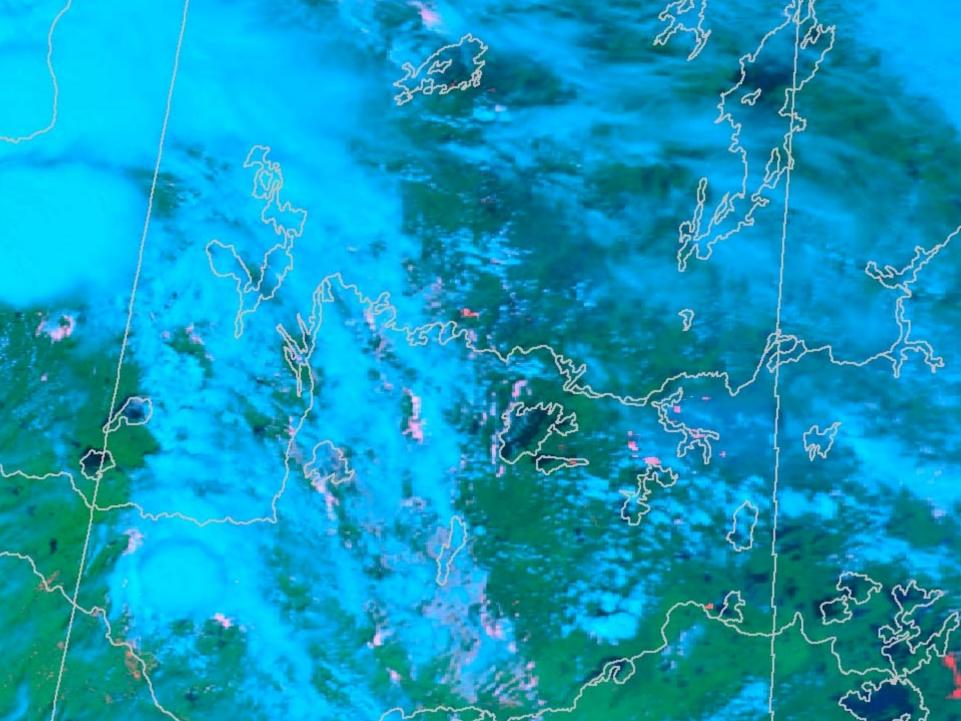




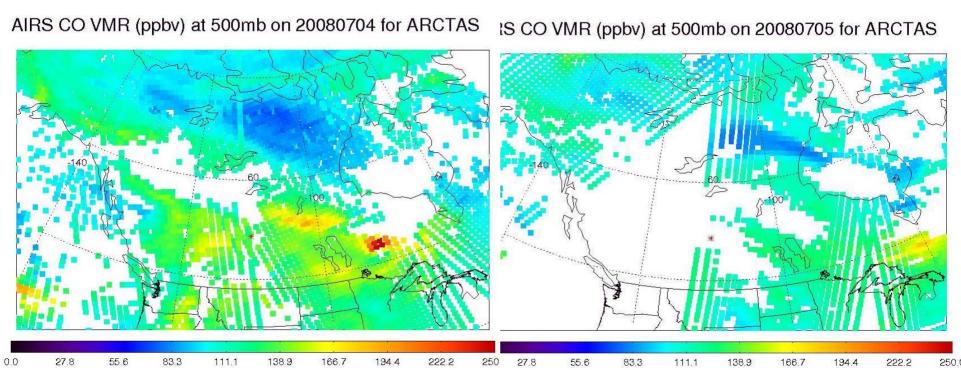






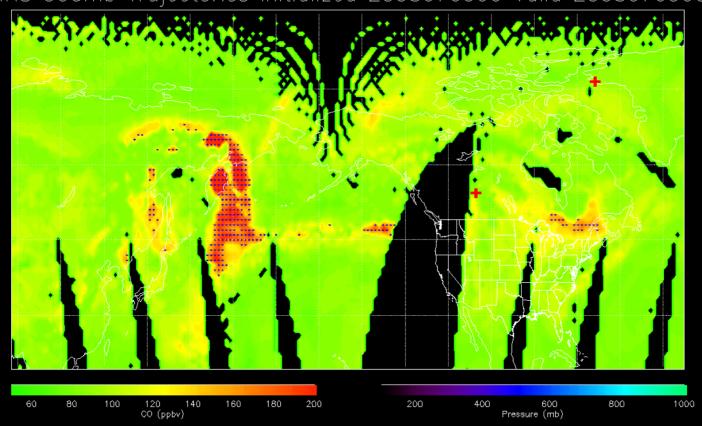


AIRS Support for ARCTAS



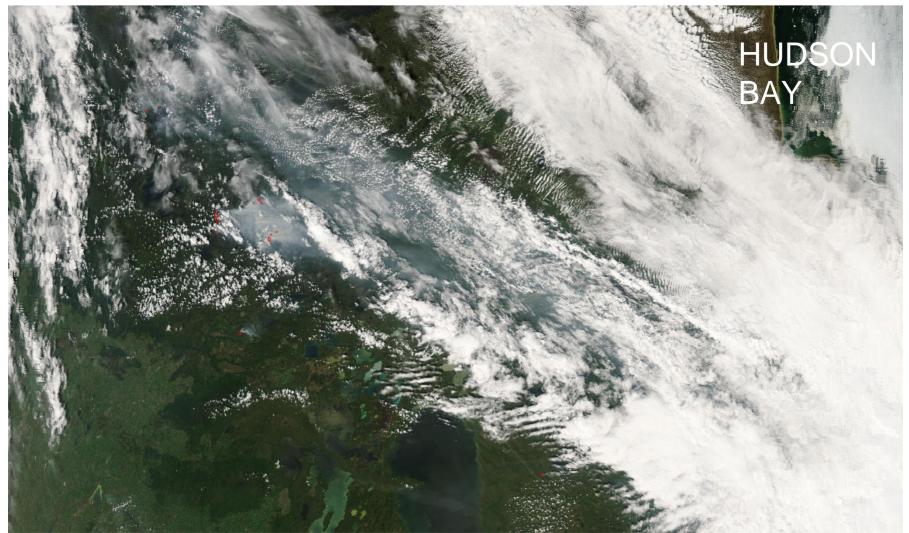
Strong emission from Saskatchewan/Manitoba fire captured by DC8 yesterday. Long-range transport still very strong.

AIRS 500mb Trajectories initialized 2008070500 Valid 2008070500

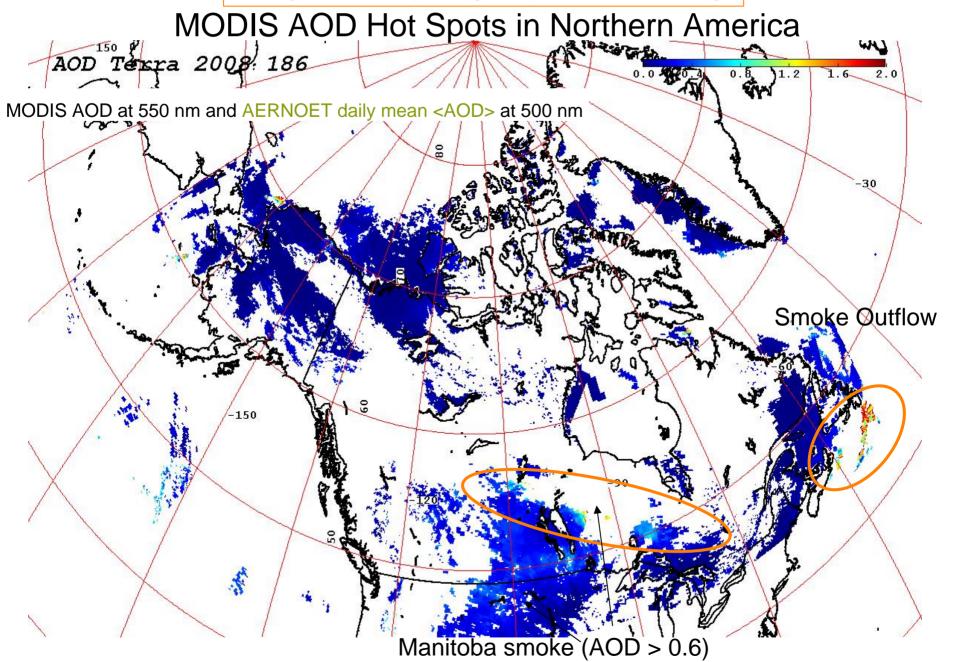




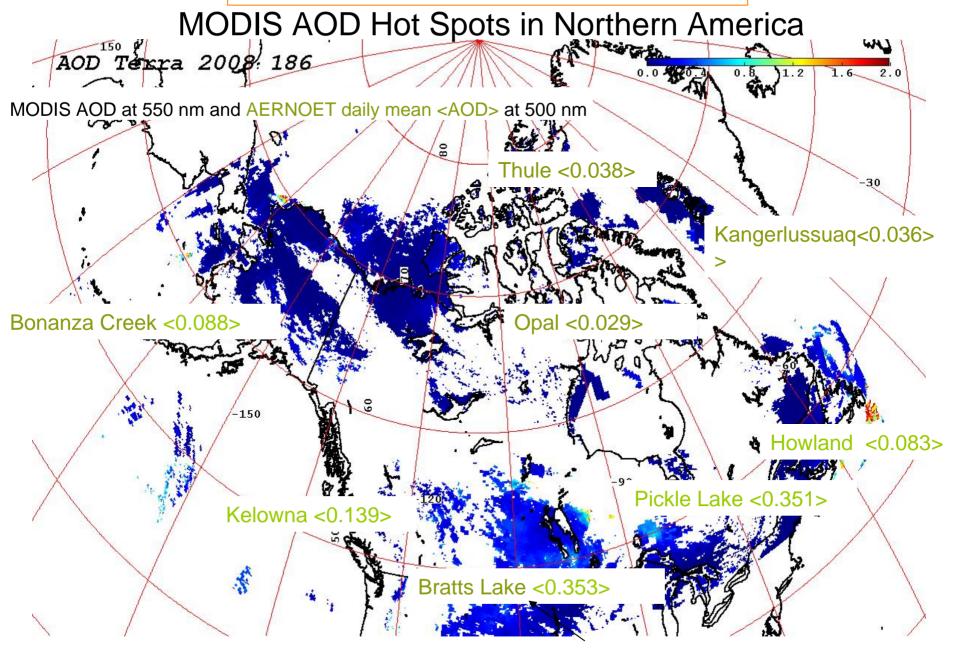
Smoke plumes in Saskatchewan and Manitoba sampled by DC-8 yesterday (JULY 4) afternoon



Day 186 (July 4) Thursday

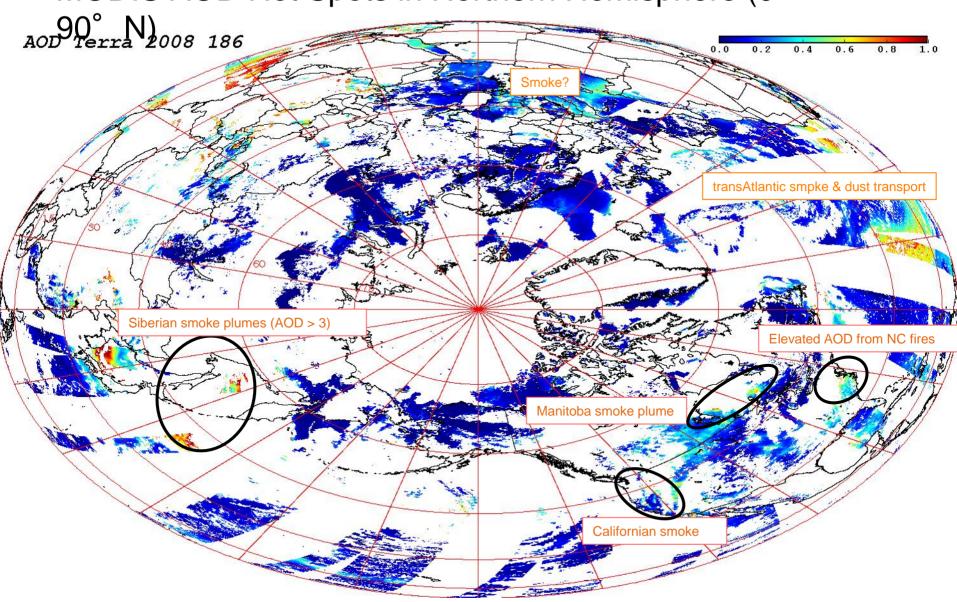


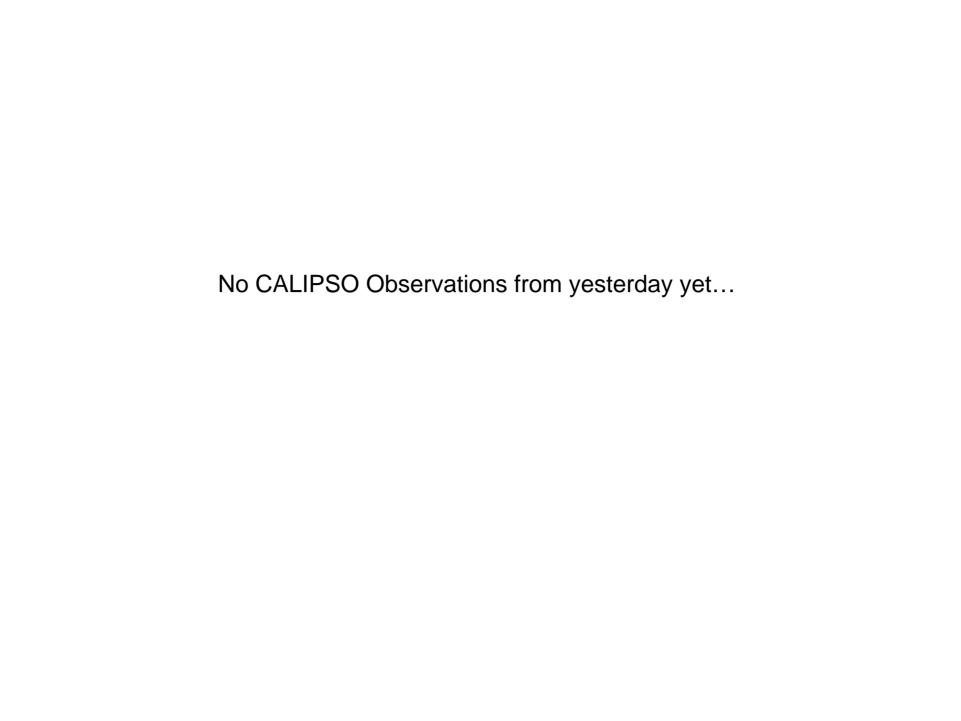
Day 186 (July 4) Thursday

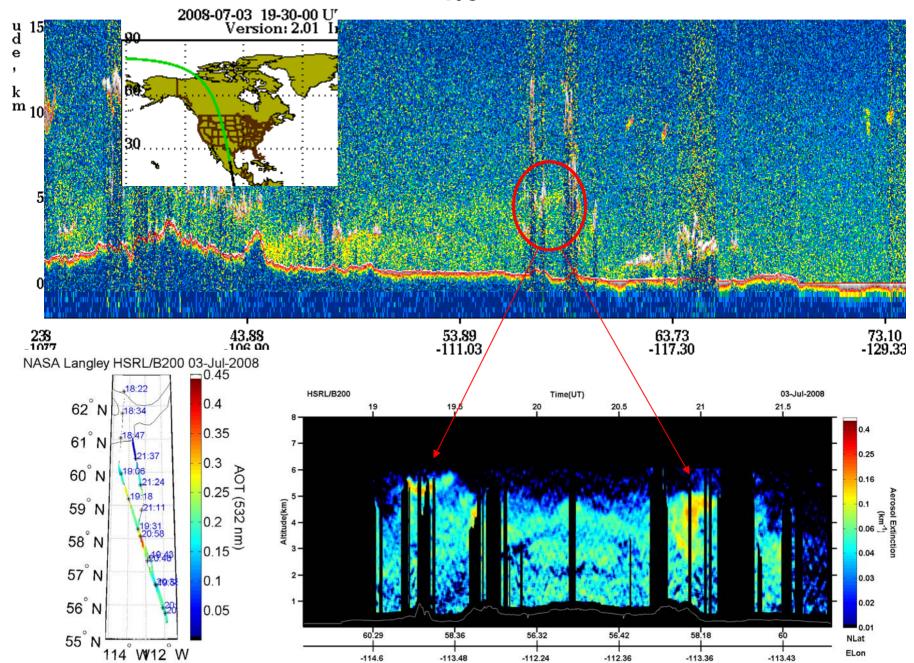


Day 186 (July 4) Friday

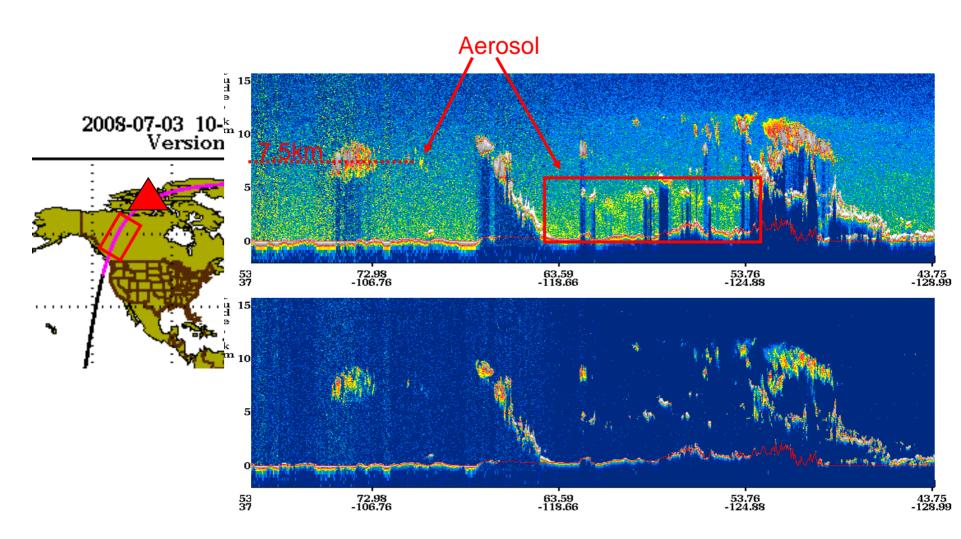
MODIS AOD Hot Spots in Northern Hemisphere (0° -

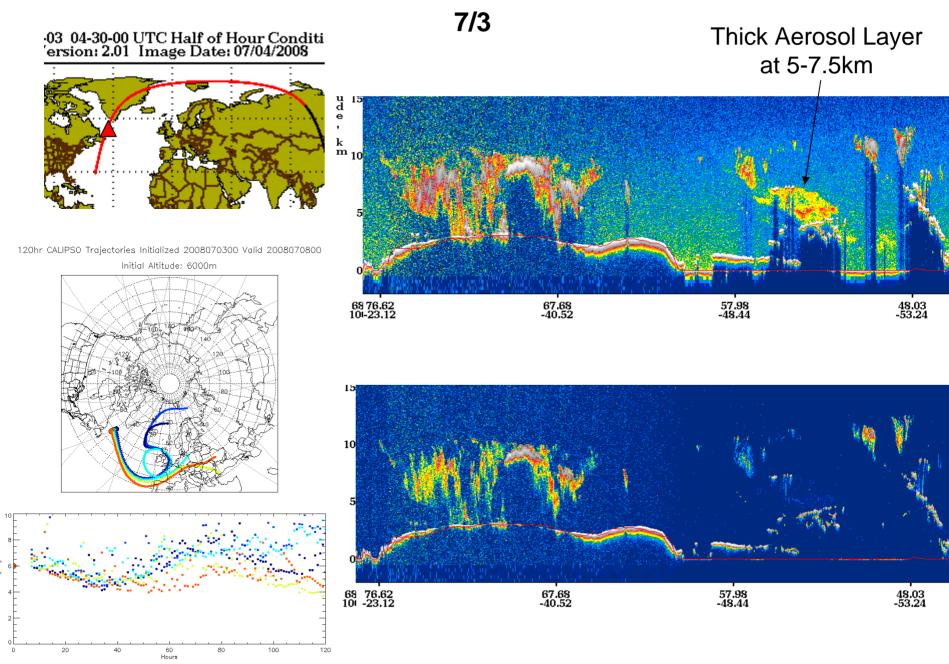




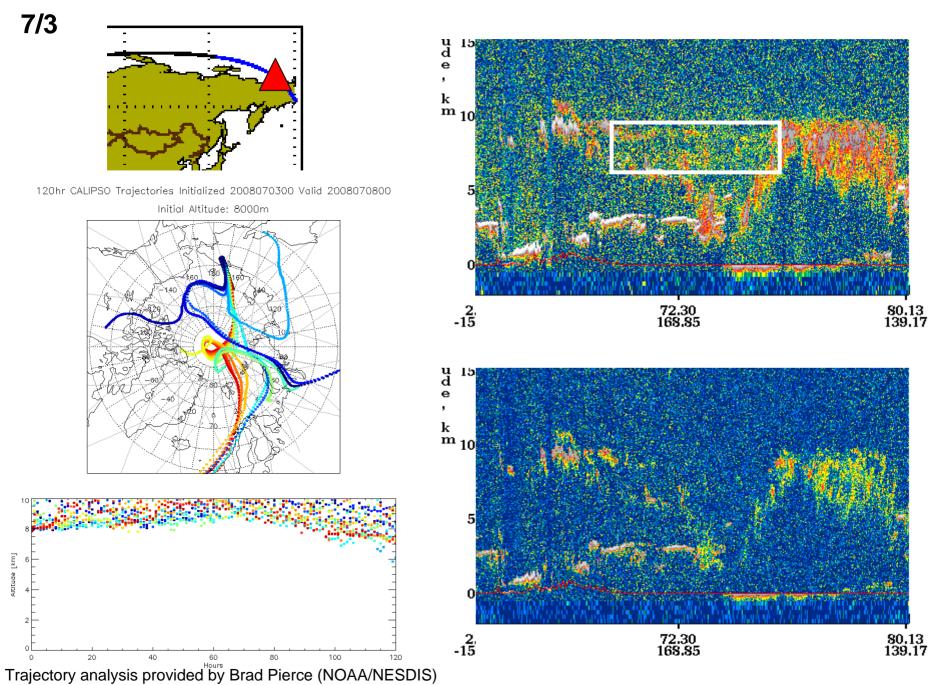


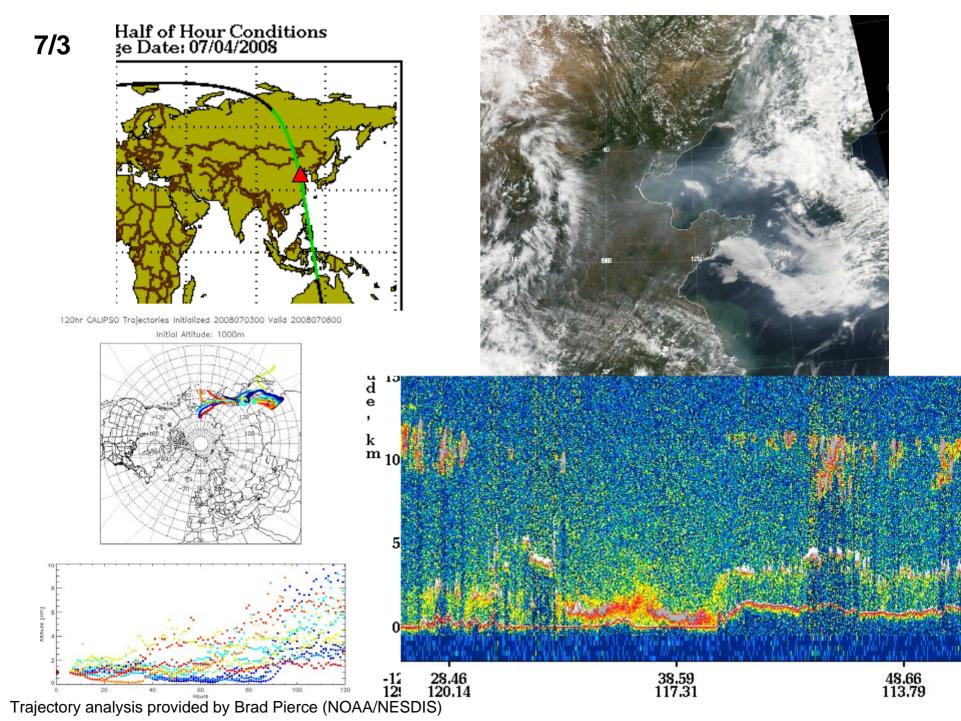
CALIPSO Obs 7/3: W Canada



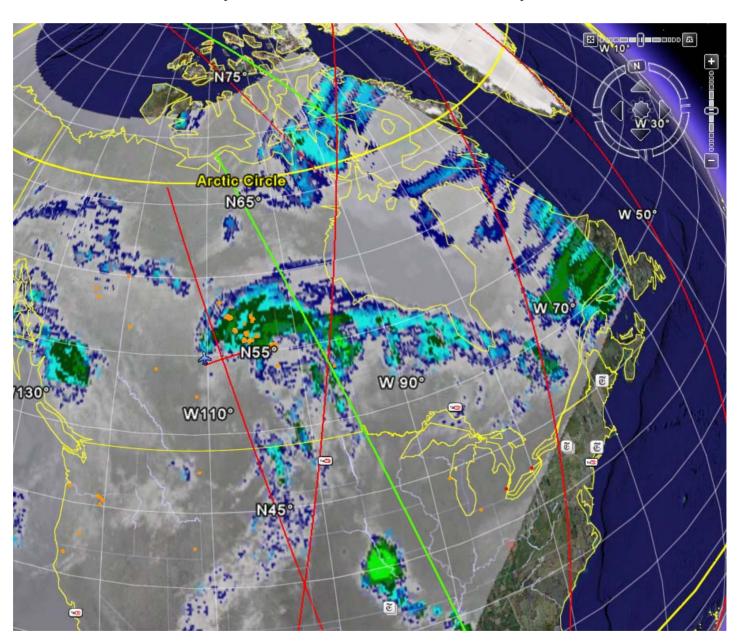


Trajectory analysis provided by Brad Pierce (NOAA/NESDIS)



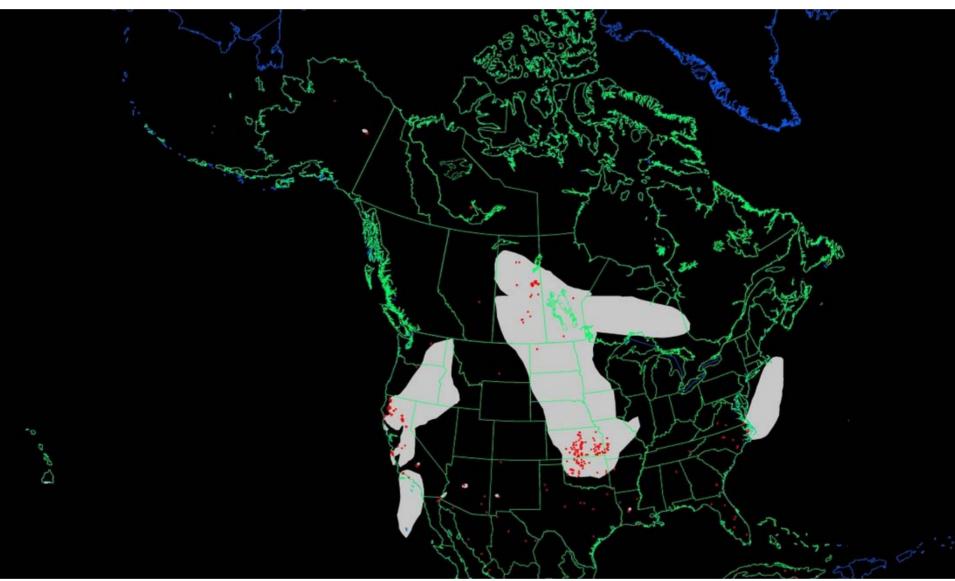


Green: Yesterday's track Red: Today's track

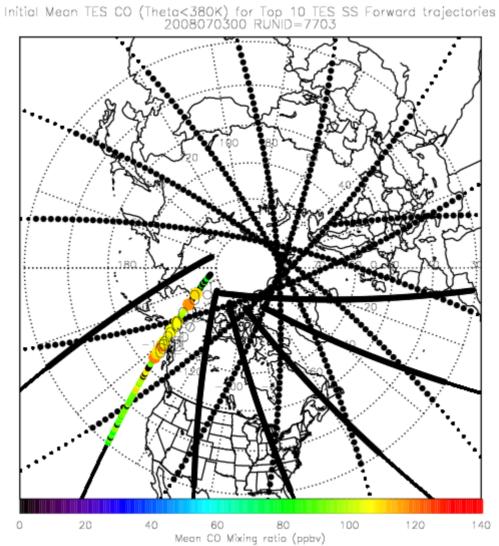


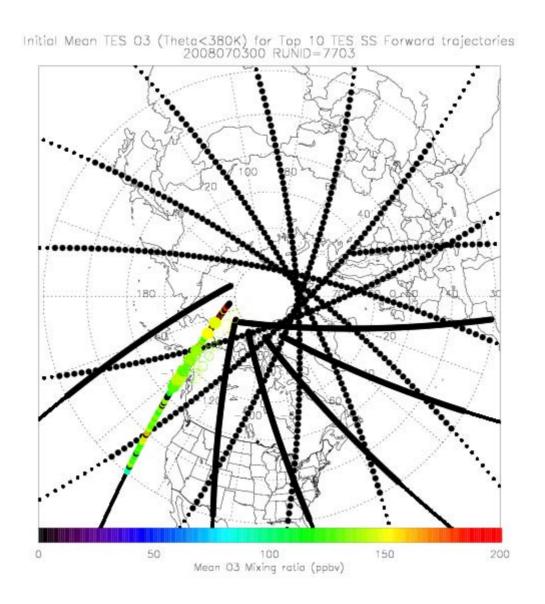
NOAA Hazard Mapping System Fire and Smoke Product

http://www.ssd.noaa.gov/PS/FIRE/hms.html

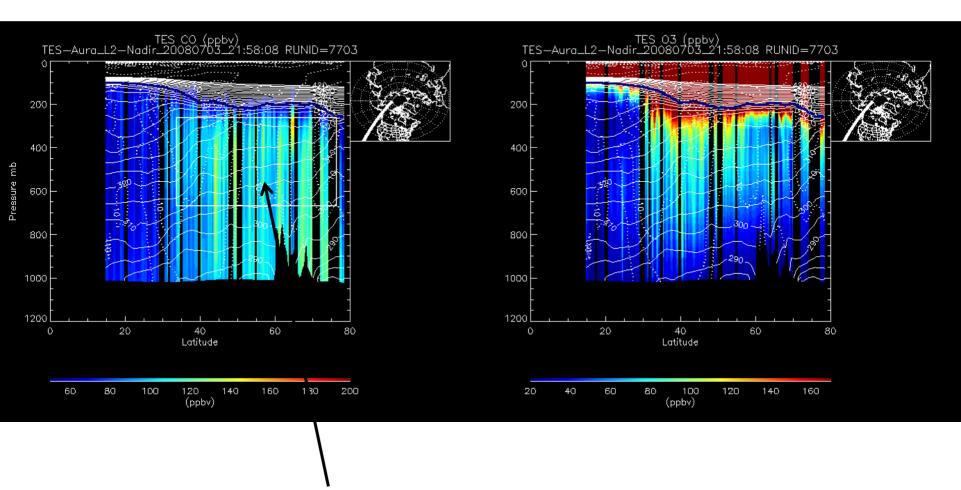


Analysis for day 7/4/2008 last updated at 7/5/2008 10:19:30 GMT



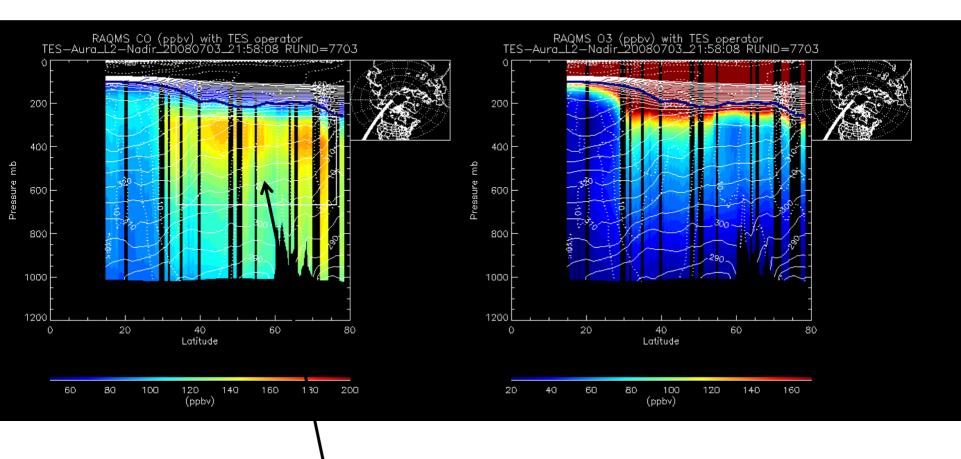


TES CO (left) and O3 (right) curtains from SS orbit 7703 (07/03)

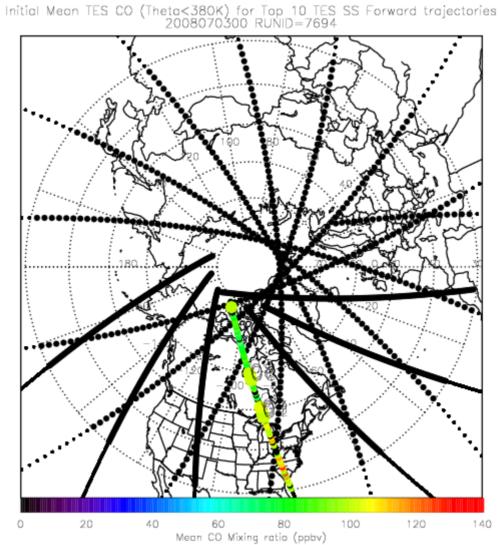


TES observes an area of braodly enhanced CO which seems to correspond to the outflow of siberian forest fires.

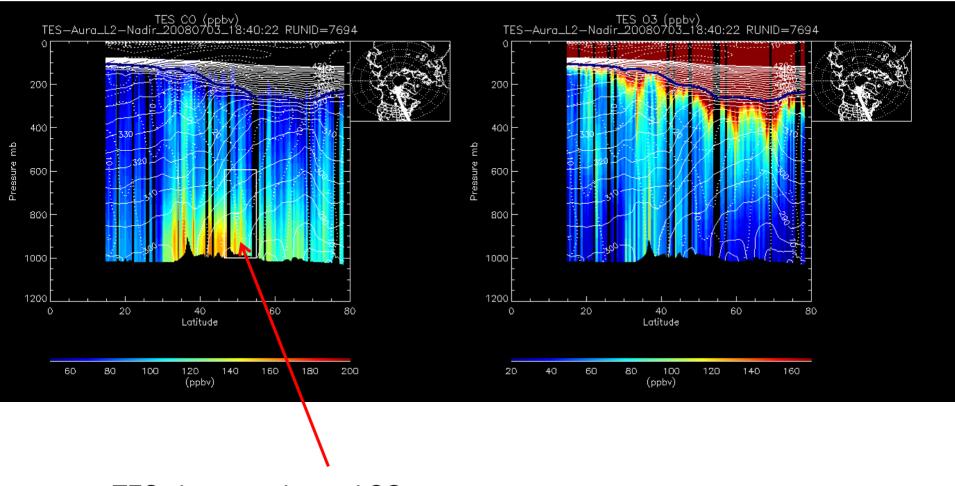
RAQMS CO (left) and O3 (right) curtains from SS orbit 7703 (07/03)



RAQMS apparently confirms the presence of this feature. Though it over estimates the magnitude.



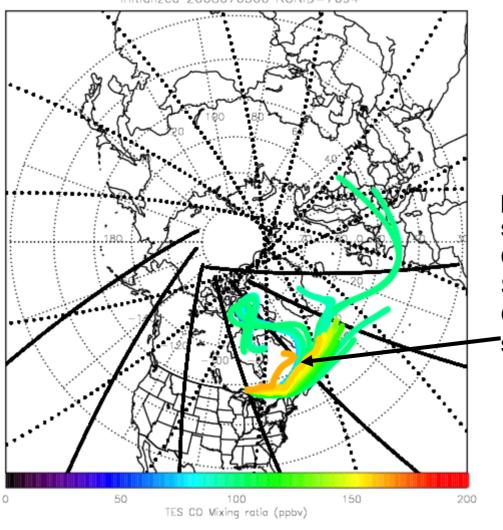
TES CO (left) and O3 (right) curtains from SS orbit 7694 (07/03)



TES observes elevated CO within the lower troposphere in the region East Cold Lake in the Saskatchewan.

TES SS Forward Trajectories "Profile 3" Valid 00Z 07/08 (07/07 Thule flight)

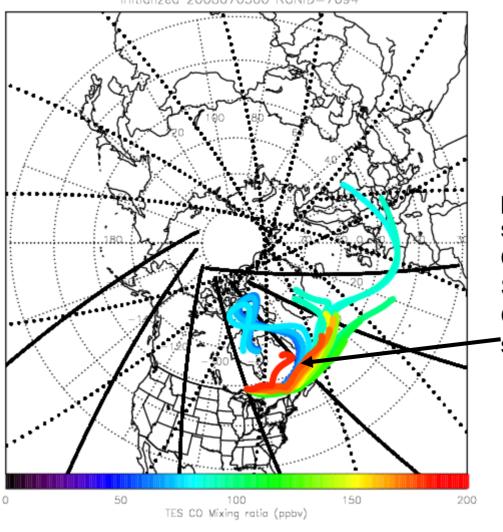
FT TES SS Profile #03 120hr Forward trajectories Initialized 2008070300 RUNID=7694



Outflow from local plumes will be in sector between Cold Lake and Southern Greenland near surface.

TES SS Forward Trajectories "Profile 4" Valid 00Z 07/08 (07/07 Thule flight)

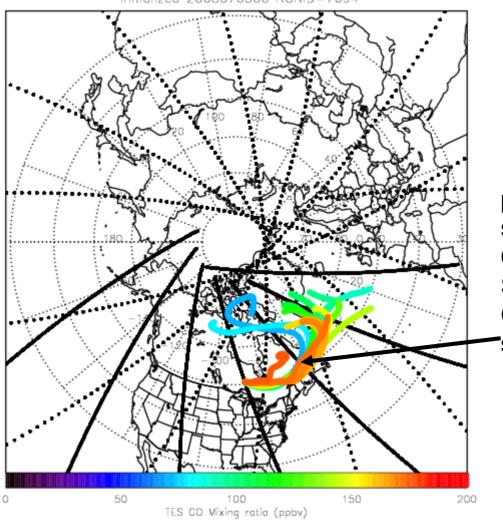
FT TES SS Profile #04 120hr Forward trajectories Initialized 2008070300 RUNID=7694



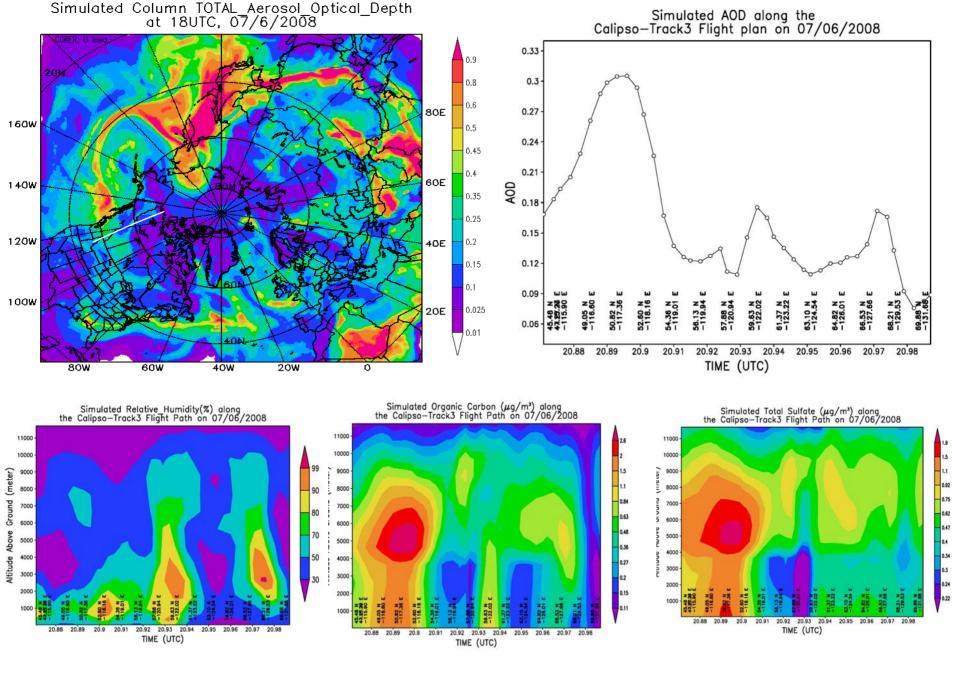
Outflow from local plumes will be in sector between Cold Lake and Southern Greenland near surface.

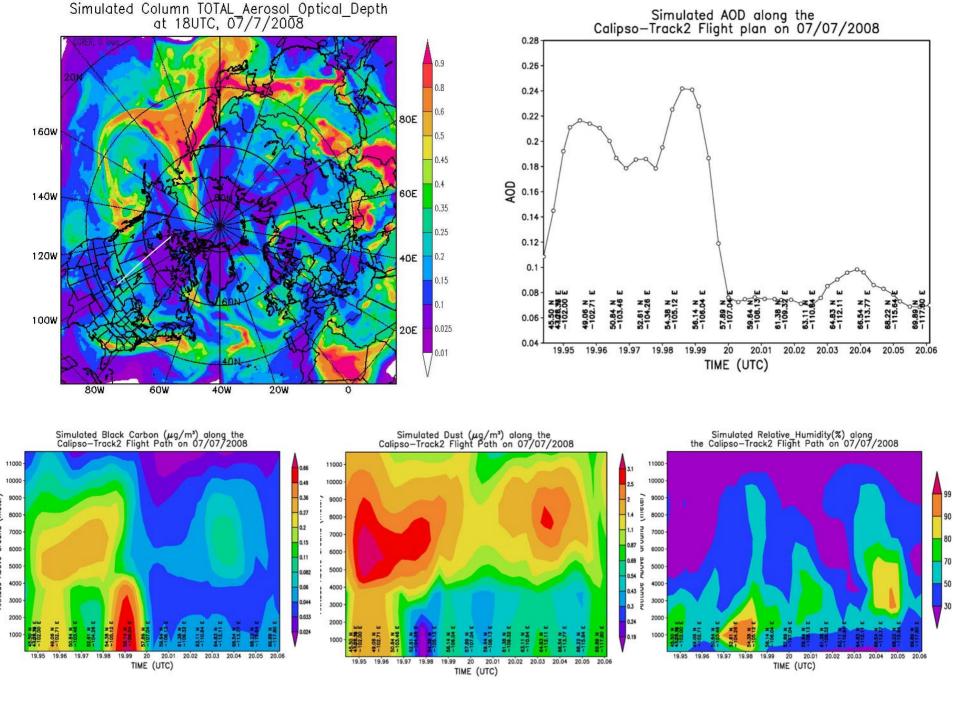
TES SS Forward Trajectories "Profile 5" Valid 00Z 07/08 (07/07 Thule flight)

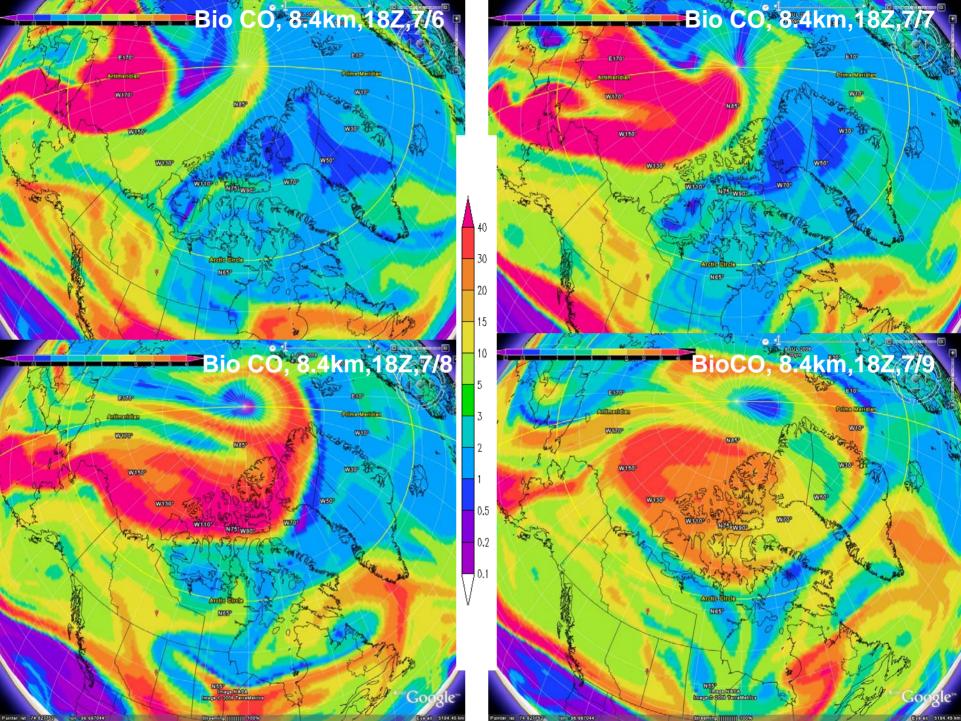
FT TES SS Profile #05 120hr Forward trajectories Initialized 2008070300 RUNID=7694

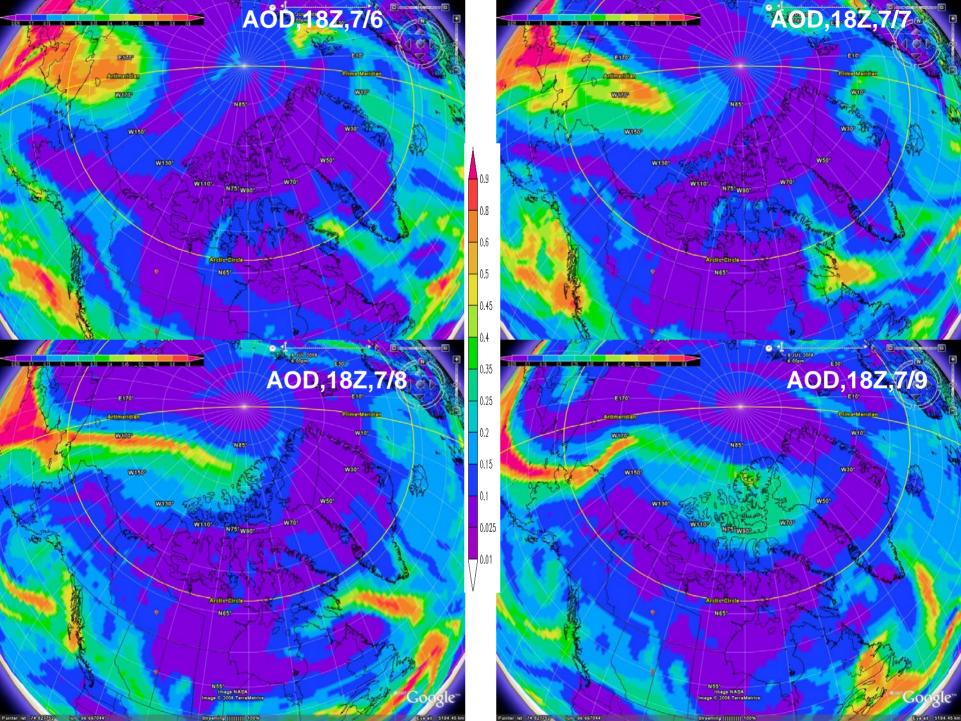


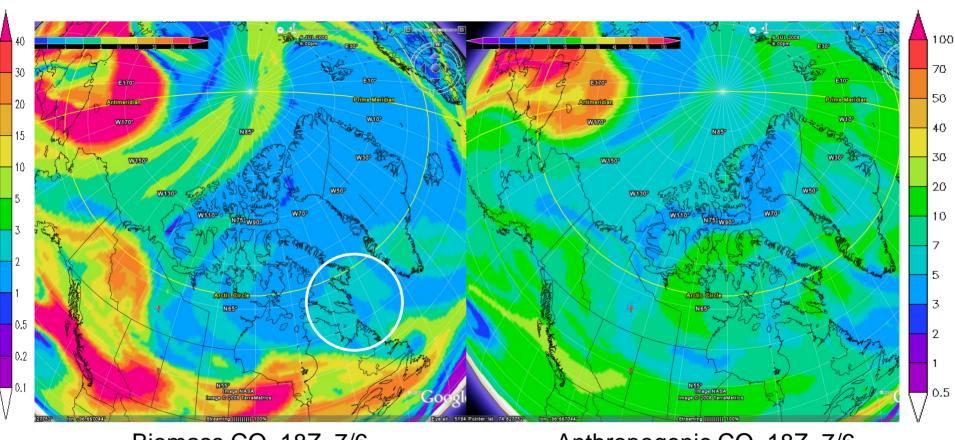
Outflow from local plumes will be in sector between Cold Lake and Southern Greenland near surface.





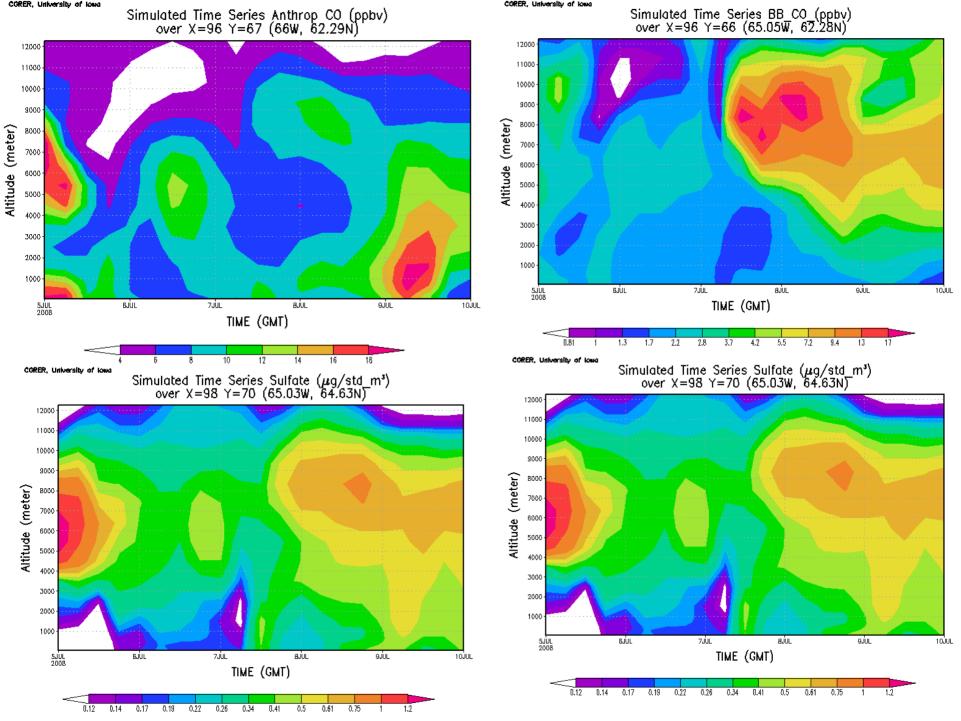


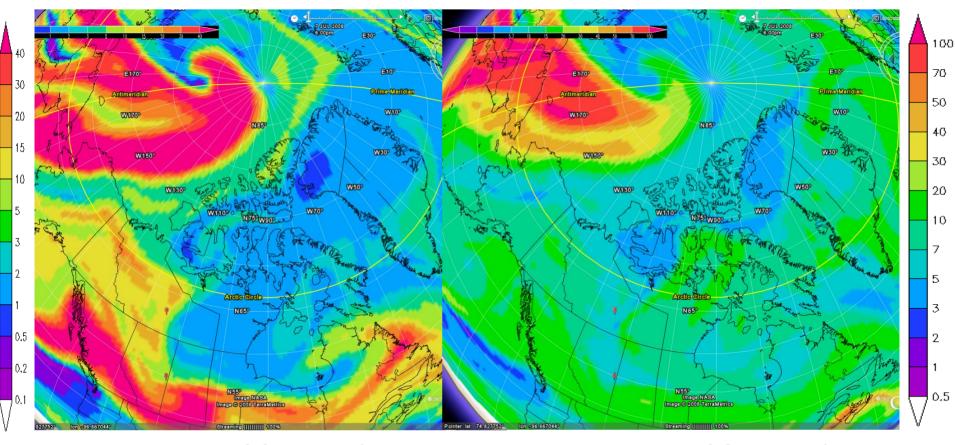




Biomass CO, 18Z, 7/6

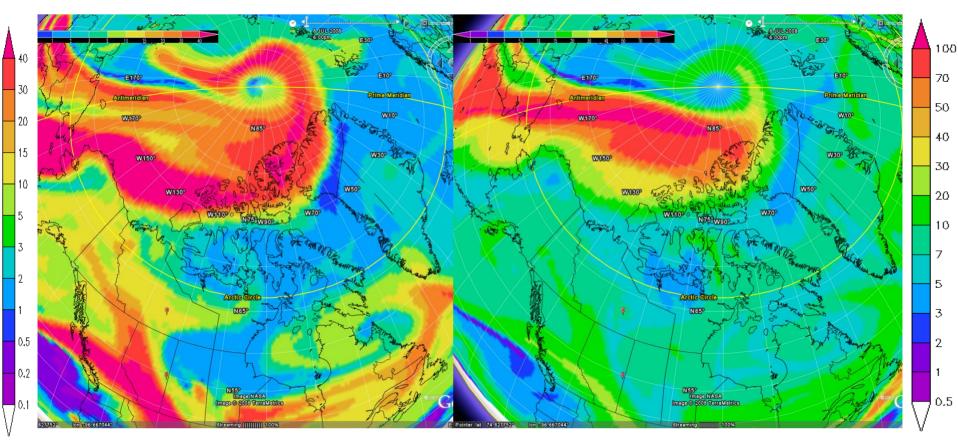
Anthropogenic CO, 18Z, 7/6





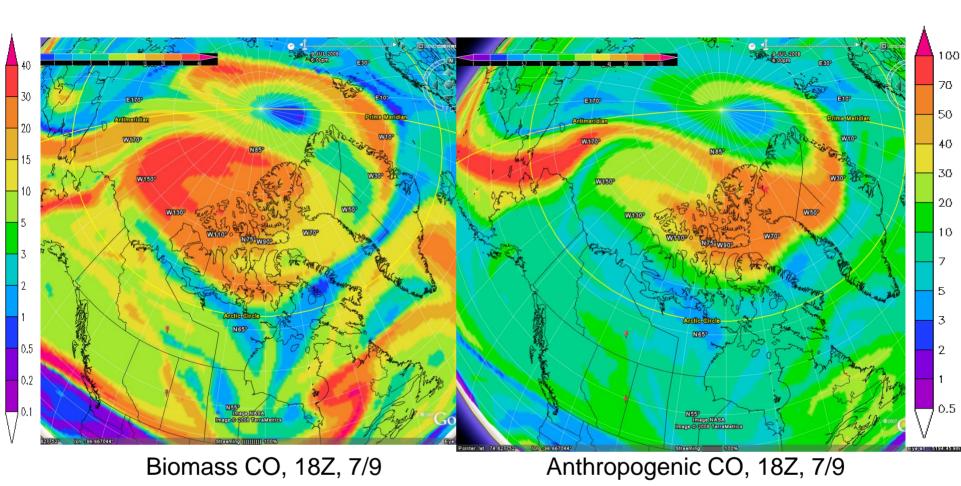
Biomass CO, 18Z, 7/7

Anthropogenic CO, 18Z, 7/7



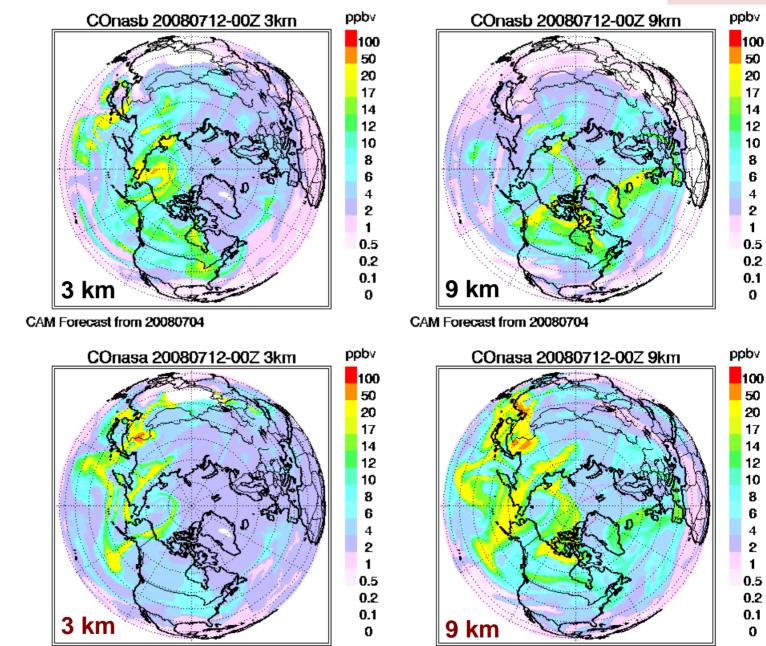
Biomass CO, 18Z, 7/8

Anthropogenic CO, 18Z, 7/8



CAM Forecast from 20080704

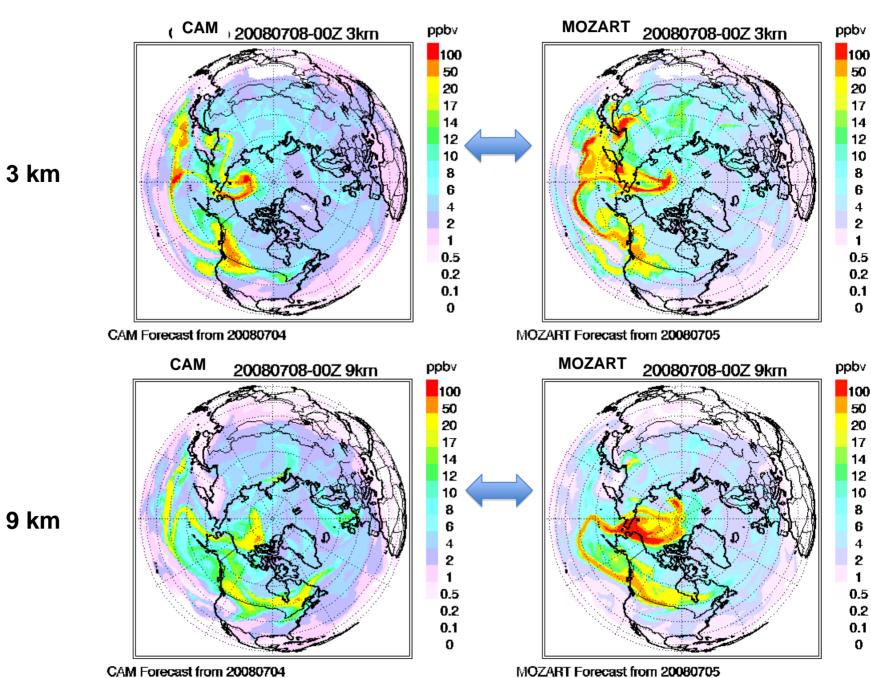
July 11

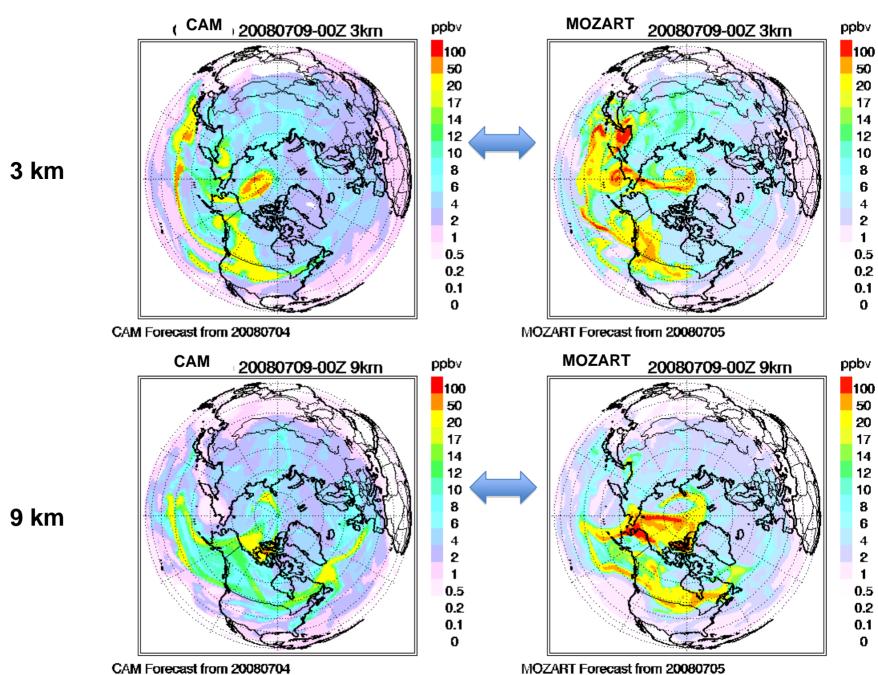


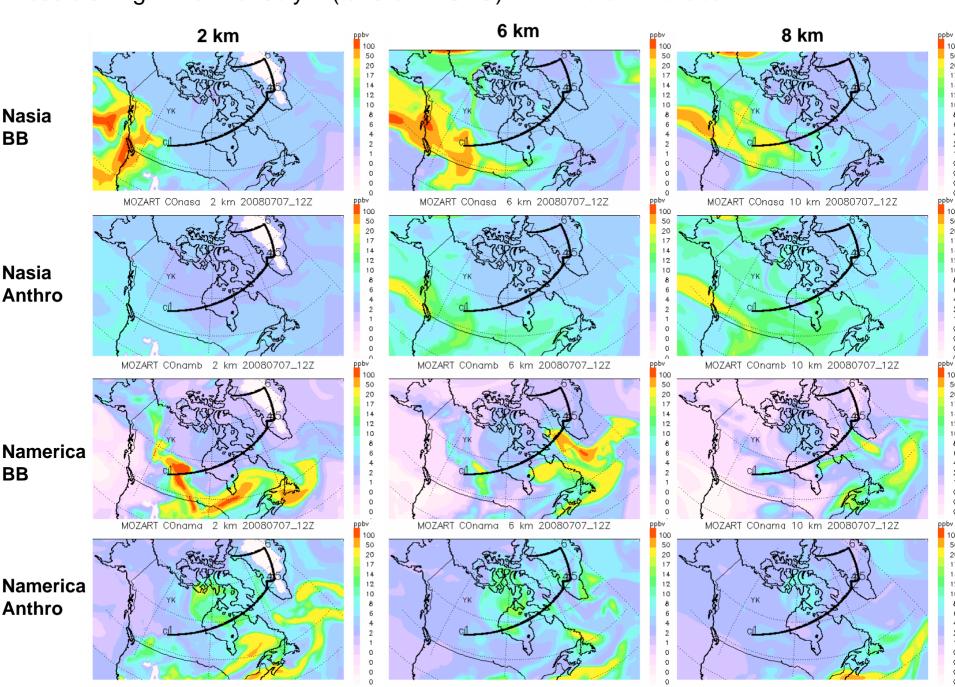
CAM Forecast from 20080704

Anthro

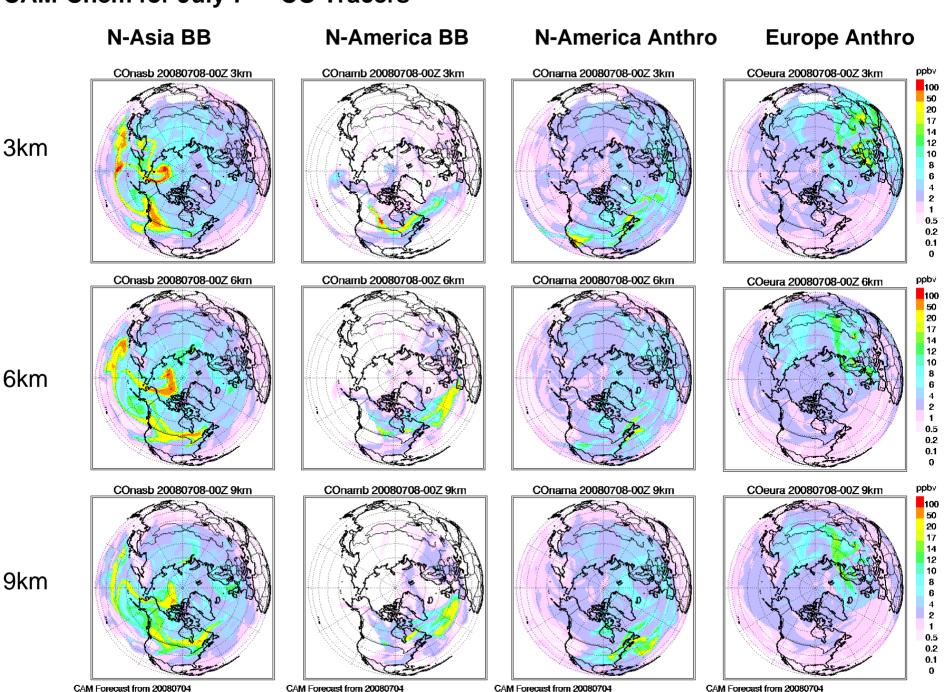
Fires



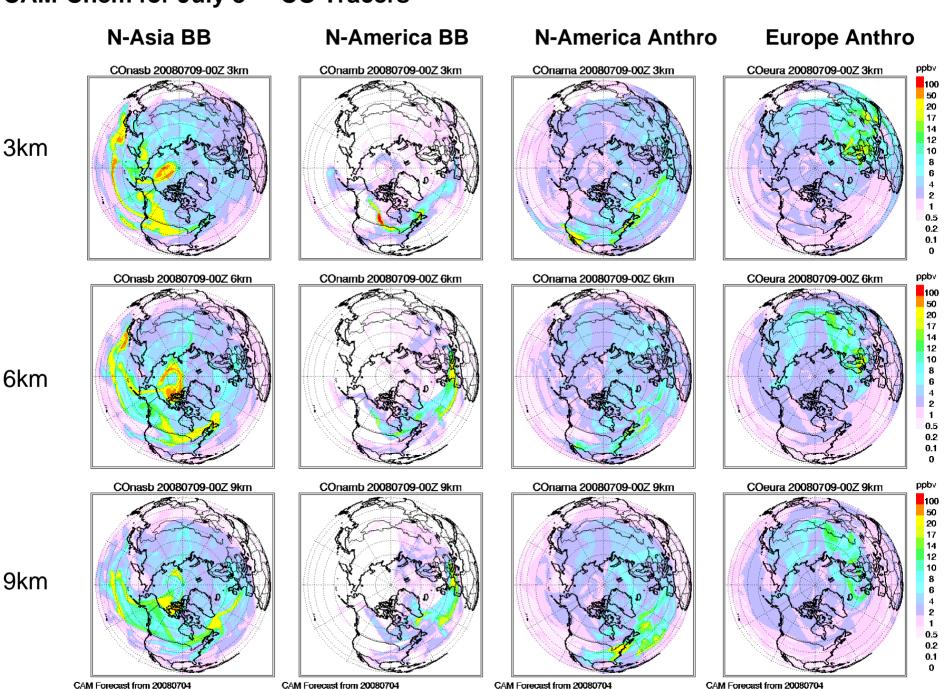




CAM-Chem for July 7 - CO Tracers



CAM-Chem for July 8 - CO Tracers



Total CO 5-day Animation: July 5th 00Z

300 mb

- Old Siberian continues to circulate in Arctic.
- New Siberian Fire & Asian Anthro. plume arrives in Arctic at multiple vertical levels.
- Another Asian Anthro.
 & Siberian Fire plume crosses Pacific Oc. & should be over Cold Lake July 5th-8th.
 Exported w/N. Amer.

boreal CO to Atlantic.



180

165

150

135

120

105

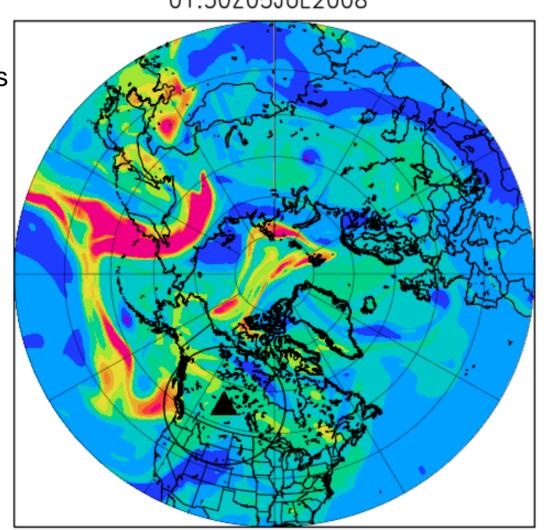
90

75

60

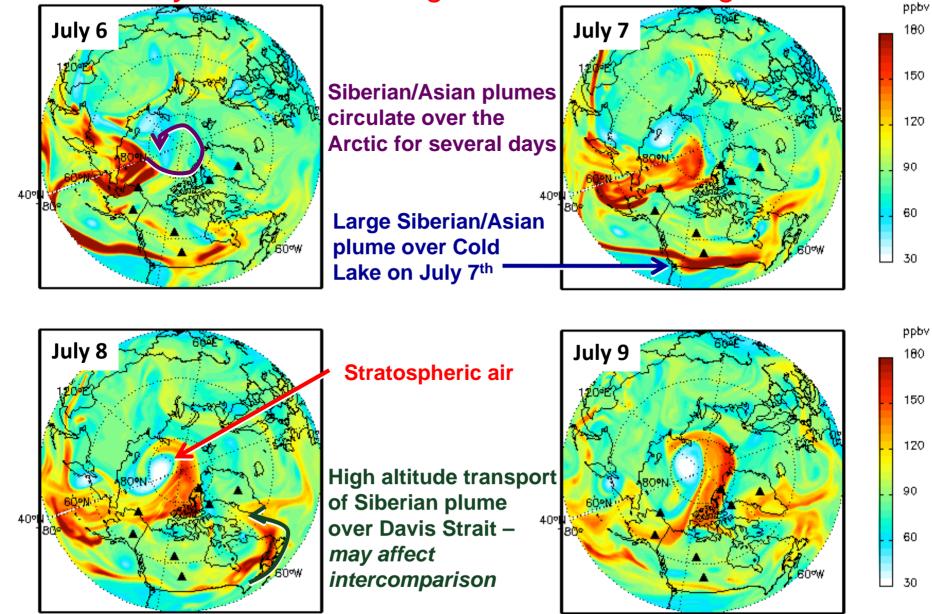
45

30

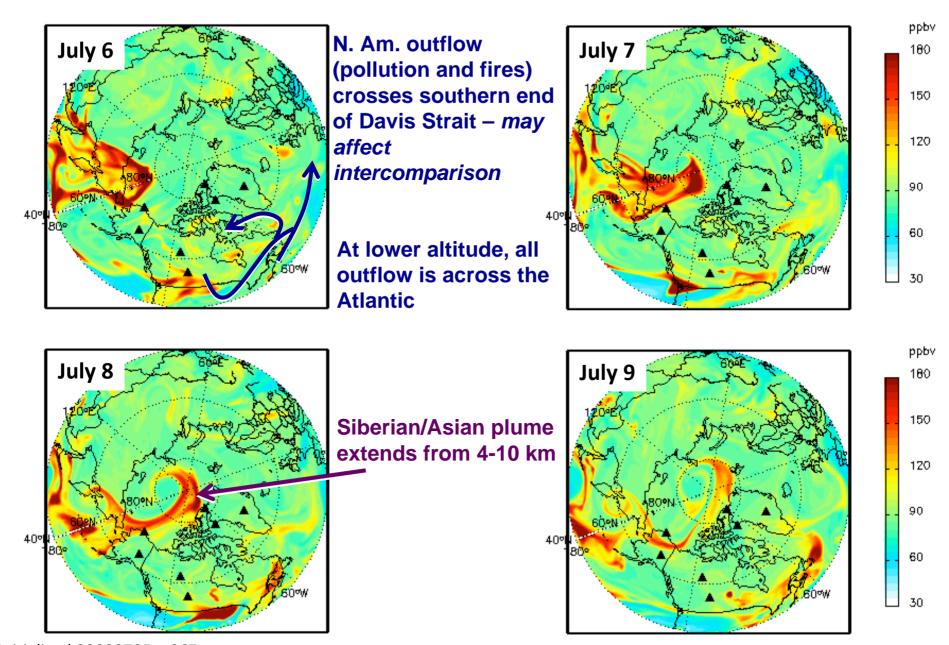


GEOS5 Outlook for next four days – Total CO @ 300 hPa

Either July 7/8 or 8/9 looks good for the Thule flight

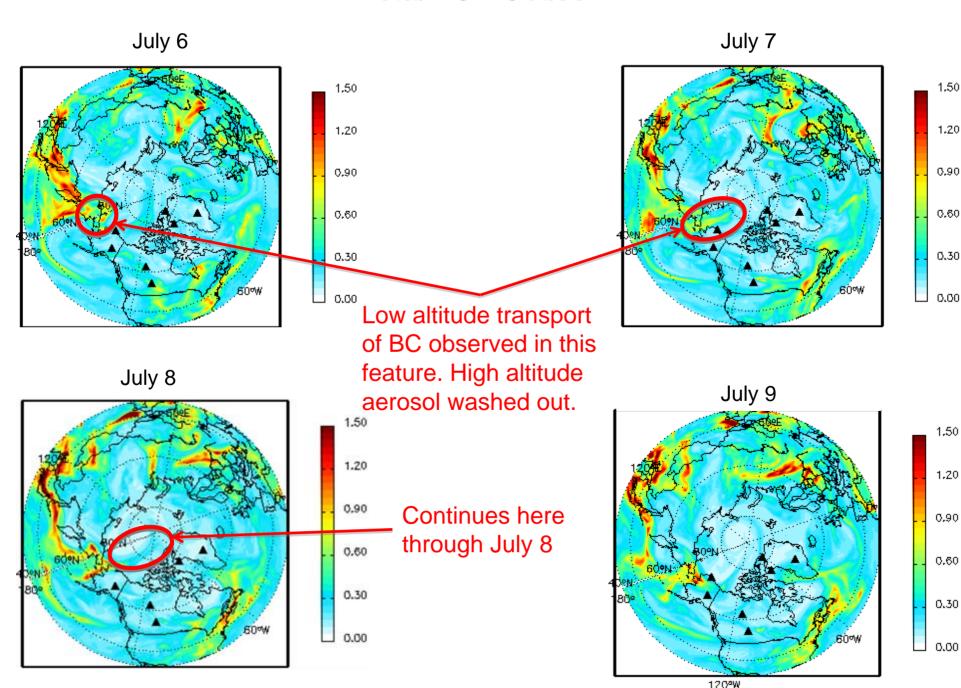


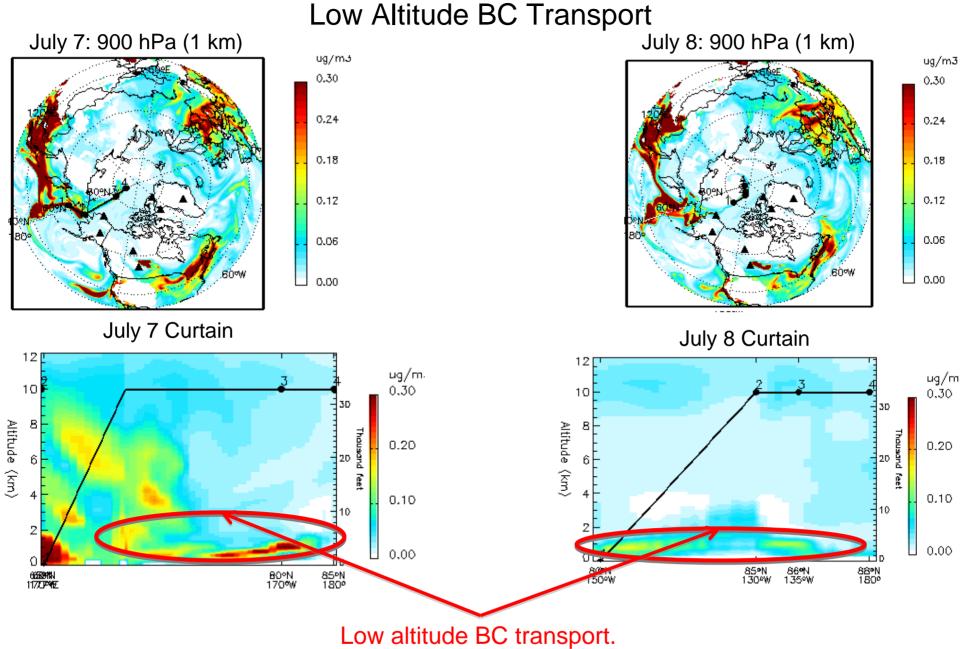
GEOS5 Outlook for next four days - Total CO @ 500 hPa



Initialized 20080705 – 06Z

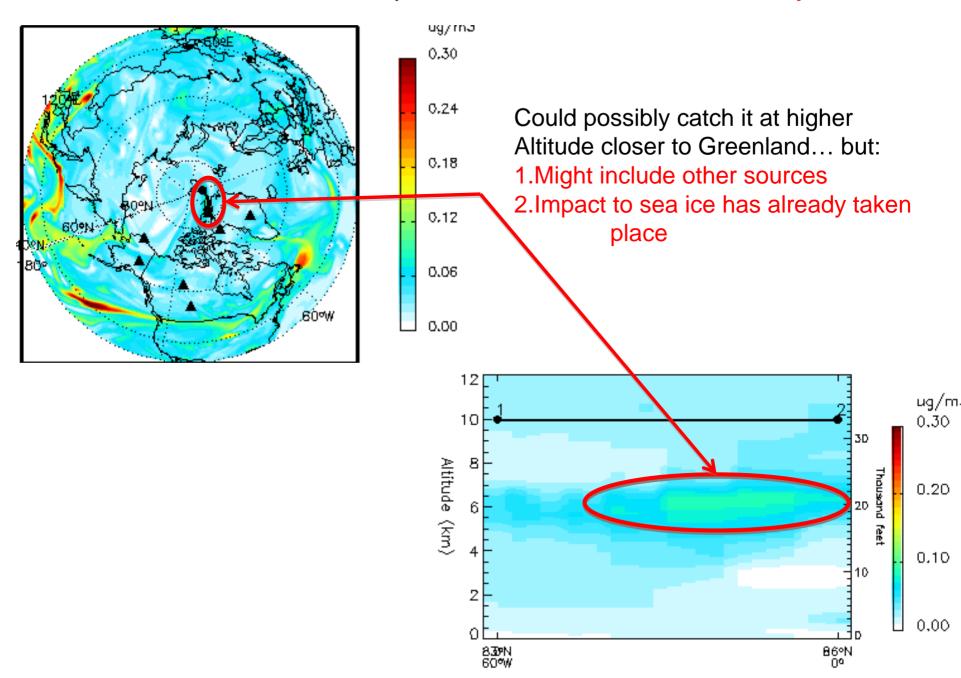
Total AOT Outlook



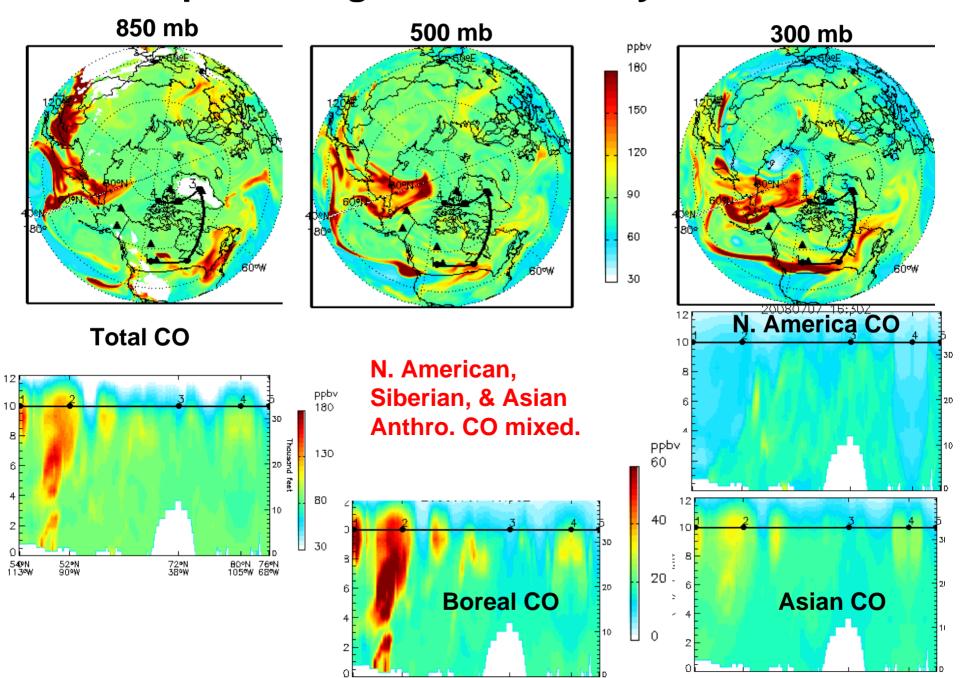


Potential for deposition on sea-ice.

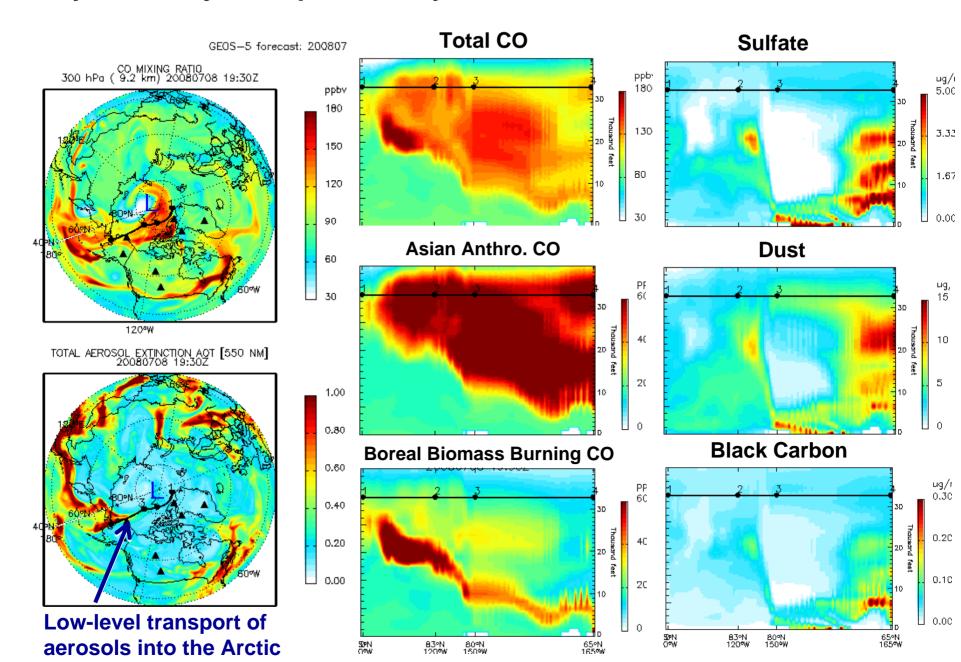
Low Altitude BC Transport: Feature is Gone/Diffuse by 7/9



Proposed Flight to Thule: July 7th 16:30Z



July 8 – A major low pressure system in the Arctic!



July 8 -- Potential flight track to catch Siberian+Asian plume in Arctic

